Links

Stundenplan html ical spluseins

Semester/Deutschlandticket

Ostfalia-Card Abholung im Rechenzentrum

Zusatzdokument

In [1]:
```
%%latex

$\frac{x}{x+y}+\frac{y}{x-y}$
```

$\frac{x}{x+y}+\frac{y}{x-y}$

In [9]:
```
%%latex

$\frac{(x)*(x-y)}{(x+y)*(x-y)}+\frac{(y)*(x+y)}{(x+y)*(x-y)}$
```

$\frac{(x)*(x-y)}{(x+y)*(x-y)}+\frac{(y)*(x+y)}{(x+y)*(x-y)}$

In [11]:
```
%%latex

$\frac{x^2-xy}{x^2-y^2}+\frac{xy+y^2}{x^2-y^2}$
```

$\frac{x^2-xy}{x^2-y^2}+\frac{xy+y^2}{x^2-y^2}$

In [13]:
```
%%latex

$\frac{(x^2-xy)+(xy+y^2)}{x^2-y^2}$
```

$\frac{(x^2-xy)+(xy+y^2)}{x^2-y^2}$

In [14]:
```
%%latex

$\frac{x^2-xy+xy+y^2}{x^2-y^2}$
```

$\frac{x^2-xy+xy+y^2}{x^2-y^2}$

In [15]:
```
%%latex

$\frac{x^2+y^2}{x^2-y^2}$
```

$\frac{x^2+y^2}{x^2-y^2}$

In [19]:
```
%%latex
$4-\frac{6^2}{10^2}b^2$
```

$$4-\frac{6^2}{10^2}b^2$$

In [20]:
```
%%latex
$4-\frac{36}{100}b^2$
```

$$4-\frac{36}{100}b^2$$

In [21]:
```
%%latex
$4-0.36b^2$
```

$$4-0.36b^2$$

In [23]:
```
%%latex
$(2+1.4b)^2$
```

$$(2+1.4b)^2$$

In [20]:
```
%%latex
$\sqrt{(x+y)}^2$
```

$$\sqrt{(x+y)}^2$$

In [25]:
```
%%latex
$4+5.6b+1.96b^2$
```

$$4+5.6b+1.96b^2$$

In [26]:
```
%%latex
$(d-a)^2 = b - 12dg+36g^2$
```

$$(d-a)^2 = b - 12dg+36g^2$$

In [27]:
```
%%latex
$d^2-2ad+a^2 = b - 12dg+36g^2$
```

$$d^2-2ad+a^2 = b - 12dg+36g^2$$

In [29]:
```
%%latex
$a=6g$
```

$$a=6g$$

In [32]:
```
%%latex
$d^2-2(6g)d+(6g)^2 = b - 12dg+36g^2$
```

$$d^2-2(6g)d+(6g)^2 = b - 12dg+36g^2$$

In [33]:
```
%%latex
$d^2-12gd+36g^2 = b - 12dg+36g^2$
```

$$d^2-12gd+36g^2 = b - 12dg+36g^2$$

In [9]:
```
%%latex
$5*(x+y+z)-7(x-y+z)-8(x+y-z)$
```

```
$=5*x+5*y+5*z-7x+(-7)(-y)+(-7)z-8x-8y-8*(-z)$

$=5*x+5*y+5*z-7x+7y-7z-8x-8y+8z$

$=-10x+4y+6z$
```

$5 * (x + y + z) - 7(x - y + z) - 8(x + y - z)$
$= 5 * x + 5 * y + 5 * z - 7x + (-7)(-y) + (-7)z - 8x - 8y - 8 * (-z)$
$= 5 * x + 5 * y + 5 * z - 7x + 7y - 7z - 8x - 8y + 8z = -10x + 4y + 6z$

In [12]:
```
%%latex

$25m + (13n - 8z) + (5z + 7m) - (11m + 5n) - (13z-17n)$

$= 25m + 13n - 8z + 5z + 7m - 11m - 5n - 13z+17n$

$= 21m + 25n - 16z$
```

$25m + (13n - 8z) + (5z + 7m) - (11m + 5n) - (13z - 17n)$
$= 25m + 13n - 8z + 5z + 7m - 11m - 5n - 13z + 17n = 21m + 25n - 16z$

In [16]:
```
%%latex

$69p + [13q - (17p+11q)]-[11p-(13p-17q)]$

$= 69p + [13q - 17p-11q]-[11p-13p+17q]$

$= 69p + [2q - 17p]-[-2p+17q]$

$= 69p + 2q - 17p+2p-17q$

$= 54p -15q$
```

$69p + [13q - (17p + 11q)] - [11p - (13p - 17q)] = 69p + [13q - 17p - 11q] - [11p - 13p + 17q]$
$= 69p + [2q - 17p] - [-2p + 17q] = 69p + 2q - 17p + 2p - 17q = 54p - 15q$

In [21]:
```
%%latex

$(3a+5b)-\{11a-[5c-(9b-8a)]+13b\}$

$=3a+5b-\{11a-[5c-9b+8a]+13b\}$

$=3a+5b-\{11a-5c+9b-8a+13b\}$

$=3a+5b-11a+5c-9b+8a-13b$

$=-17b+5b$
```

$(3a + 5b) - \{11a - [5c - (9b - 8a)] + 13b\} = 3a + 5b - \{11a - [5c - 9b + 8a] + 13b\}$
$= 3a + 5b - \{11a - 5c + 9b - 8a + 13b\} = 3a + 5b - 11a + 5c - 9b + 8a - 13b = -17b + 5b$

In [3]:
```
%%latex

$(a-b)*(2x+3y)-(a-b)(x-y)+(a-b)(x-3y)$
```

```
$=(a-b)*((2x+3y)-(x-y)+(x-3y))$

$=(a-b)*(2x+3y-x+y+x-3y)$

$=(a-b)*(2x+y)$
```

$(a-b)*(2x+3y)-(a-b)(x-y)+(a-b)(x-3y)$
$=(a-b)*((2x+3y)-(x-y)+(x-3y))=(a-b)*(2x+3y-x+y+x-3y)$
$=(a-b)*(2x+y)$

In [4]:
```
%%latex

$b^2(b-c)+c^2(c-b)$

$=b^2(b-c)+c^2(-1(-c+b))$

$=b^2(b-c)-c^2(b-c)$

$=(b^2-c^2)(b-c)$
```

$b^2(b-c)+c^2(c-b)=b^2(b-c)+c^2(-1(-c+b))=b^2(b-c)-c^2(b-c)=(b^2-c^2)(b-c)$

In [ ]: